

The MPs below are for a second derivative of the unknowns. The observed MP is what you might actually find for a slightly impure compound.

If your unknown is an aldehyde or a ketone, the 2<sup>nd</sup> derivative is a semicarbazone

If your unknown is an alcohol, the 2<sup>nd</sup> derivative is a phenylurethane.

locker/unk #	MP obs
3	156-158
4	163-164.5
6	106-108
7	61.5-63
8	70-72
9	176-178.5
10	129-131
11	108-110
12	99-101
13	128-130
14	54-56
15	96-98
17	111-113
18	129-131
19	209-211
20	58-60
22	152-154.5
23	132-134.5
24	119-121
25	105-107.5
26	83.5-85
27	135-137
29	139-141
30	130-132.5
33	98.5-100.5
34	53.5-55.5
35	121-123.5
36	107-108.5
37	128-130.5
38	138-140.5
39	154-156
40	143.5-145.5
41	155.5-157.5
42	95.5-97.5

44	63-64
45	123-125
47	139-141
49	82-84
50	153-155
51	100-102.5
52	177-179
53	57-59
55	95-97.5
57	131.5-134
58	138-140.5
59	164.5-166
60	106.5-109
61	71-73
62	134-136.5
63	177-179